RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	09/683,264A
Source:	1FW16.
Date Processed by STIC:	4/28/06

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 04/28/2006
PATENT APPLICATION: US/09/683,264A TIME: 12:14:05

Input Set : A:\SubSeqList.ST25.txt

3 <110> APPLICANT: Affymetrix, Inc.

Output Set: N:\CRF4\04282006\1683264A.raw

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Siani-Rose, Michael A.
        Shigeta, Ron
 7 <120> TITLE OF INVENTION: Computer Software for Automated Annotation of Biological
        Sequences
10 <130> FILE REFERENCE: 018547-048820US
12 <140> CURRENT APPLICATION NUMBER: US 09/683,264A
13 <141> CURRENT FILING DATE: 2001-12-05
15 <150> PRIOR APPLICATION NUMBER: US 60/285,144
16 <151> PRIOR FILING DATE: 2001-04-19
18 <150> PRIOR APPLICATION NUMBER: US 60/285,403
19 <151> PRIOR FILING DATE: 2001-04-20
21 <160> NUMBER OF SEQ ID NOS: 5
23 <170> SOFTWARE: PatentIn version 3.3
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 373
27 <212> TYPE: PRT
28 <213> ORGANISM: Artificial
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Protein with similarity to VHR dual specificity phosphatase
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43 Ser Gly Glu Ala Ala Ala Lys Glu Glu Trp Val Ala Thr Val Thr Gln
47 Leu Leu Met Gly Ile Glu Gln Ala Leu Ser Ala Asp Ser Ser Gly Ser
                          55
51 Ile Leu Lys Val Ser Ser Ser Thr Thr Gly Leu Val Arg Leu Thr Asn
55 Asn Leu Ile Gln Val Ile Asp Cys Ser Met Ala Val Gln Glu Glu Ala
                  85
                                      90
59 Lys Glu Pro His Val Ser Ser Val Leu Pro Trp Ile Ile Leu His Arg
                                  105
63 Ile Ile Trp Gln Glu Glu Asp Thr Phe His Ser Leu Cys His Gln Gln
                              120
67 Gln Leu Gln Asn Pro Ala Glu Glu Gly Met Ser Glu Thr Pro Met Leu
                          135
71 Pro Ser Ser Leu Met Leu Leu Asn Thr Ala His Glu Tyr Leu Gly Arg
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75 Arg Ser Trp Cys Cys Asn Ser Asp Gly Ala Leu Leu Arg Phe Tyr Val
76
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79 Arg Val Leu Gln Lys Glu Leu Ala Ala Ser Thr Ser Glu Asp Thr His 185 83 Pro Tyr Lys Glu Glu Leu Glu Thr Ala Leu Glu Gln Cys Phe Tyr Cys 195 87 Leu Tyr Ser Phe Pro Ser Lys Lys Ser Lys Ala Arg Tyr Leu Glu Glu 215 91 His Ser Ala Gln Gln Val Asp Leu Ile Trp Glu Asp Ala Leu Phe Met 230 235 95 Phe Glu Tyr Phe Lys Pro Lys Thr Leu Pro Glu Phe Asp Ser Tyr Lys 245 250 99 Thr Ser Thr Val Ser Ala Asp Leu Ala Asn Leu Leu Lys Arg Ile Ala 260 265 103 Thr Ile Val Pro Arg Thr Glu Arg Pro Ala Leu Ser Leu Asp Lys Val 280 107 Ser Ala Tyr Ile Glu Gly Thr Ser Thr Glu Val Pro Cys Leu Pro Glu 295 111 Gly Ala Asp Pro Ser Pro Pro Val Val Asn Glu Leu Tyr Tyr Leu Leu 115 Ala Asp Tyr His Phe Lys Asn Lys Glu Gln Ser Lys Ala Ile Lys Phe 325 330 119 Tyr Met His Asp Ile Cys Ile Cys Pro Asn Arg Phe Asp Ser Trp Ala 345 123 Gly Met Ala Leu Ala Arg Ala Ser Arg Ile Gln Asp Lys Leu Asn Ser 360 355 365 127 Asn Glu Leu Lys Ser 128 370 131 <210> SEQ ID NO: 2 132 <211> LENGTH: 178 133 <212> TYPE: PRT 134 <213> ORGANISM: Artificial 136 <220> FEATURE: 137 <223> OTHER INFORMATION: VHR dual specificity phosphatase 139 <400> SEQUENCE: 2 141 Ser Val Gln Asp Leu Asn Asp Leu Leu Ser Asp Gly Ser Gly Cys Tyr 145 Ser Leu Pro Ser Gln Pro Cys Asn Glu Val Thr Pro Arg Ile Tyr Val 25 149 Gly Asn Ala Ser Val Ala Gln Asp Ile Pro Lys Leu Gln Lys Leu Gly 153 Ile Thr His Val Leu Asn Ala Ala Glu Gly Arg Ser Phe Met His Val 55 157 Asn Thr Asn Ala Asn Phe Tyr Lys Asp Ser Gly Ile Thr Tyr Leu Gly 70 75 161 Ile Lys Ala Asn Asp Thr Gln Glu Phe Asn Leu Ser Ala Tyr Phe Glu 85 90 165 Arg Ala Ala Asp Phe Ile Asp Gln Ala Leu Ala Gln Lys Asn Gly Arg 100 105 169 Val Leu Val His Cys Arg Glu Gly Tyr Ser Arg Ser Pro Thr Leu Val

Input Set : A:\SubSeqList.ST25.txt

Output Set: N:\CRF4\04282006\1683264A.raw

173 Ile Ala Tyr Leu Met Met Arg Gln Lys Met Asp Val Lys Ser Ala Leu 174 135 177 Ser Ile Val Arg Gln Asn Arg Glu Ile Gly Pro Asn Asp Gly Phe Leu 150 155 181 Ala Gln Leu Cys Gln Leu Asn Asp Arg Leu Ala Lys Glu Gly Lys Leu 182 165 170 185 Lys Pro 189 <210> SEQ ID NO: 3 190 <211> LENGTH: 159 191 <212> TYPE: PRT 192 <213> ORGANISM: Artificial 194 <220> FEATURE: 195 <223> OTHER INFORMATION: Protein phosphatase 5 197 <400> SEQUENCE: 3 199 Pro Pro Ala Asp Gly Ala Leu Lys Arg Ala Glu Glu Leu Lys Thr Gln 203 Ala Asn Asp Tyr Phe Lys Ala Lys Asp Tyr Glu Asn Ala Ile Lys Phe 207 Tyr Ser Gln Ala Ile Glu Leu Asn Pro Ser Asn Ala Ile Tyr Tyr Gly 40 211 Asn Arg Ser Leu Ala Tyr Leu Arg Thr Glu Cys Tyr Gly Tyr Ala Leu 215 Gly Asp Ala Thr Arg Ala Ile Glu Leu Asp Lys Lys Tyr Ile Lys Gly 70 219 Tyr Tyr Arg Arg Ala Ala Ser Asn Met Ala Leu Gly Lys Phe Arg Ala 223 Ala Leu Arg Asp Tyr Glu Thr Val Val Lys Val Lys Pro His Asp Lys 100 105 227 Asp Ala Lys Met Lys Tyr Gln Glu Cys Asn Lys Ile Val Lys Gln Lys 231 Ala Phe Glu Arg Ala Ile Ala Gly Asp Glu His Lys Arg Ser Val Val 135 235 Asp Ser Leu Asp Ile Glu Ser Met Thr Ile Glu Asp Glu Tyr Ser 150 239 <210> SEQ ID NO: 4 240 <211> LENGTH: 235 241 <212> TYPE: PRT 242 <213> ORGANISM: Artificial 244 <220> FEATURE: 245 <223> OTHER INFORMATION: Protein with protein phosphatase 5 fold 247 <400> SEQUENCE: 4 249 Pro Leu Cys Lys Gln Ala Leu Glu Asp Leu Glu Lys Thr Ser Gly His 10 253 Asp His Pro Asp Val Ala Thr Met Leu Asn Ile Leu Ala Leu Val Tyr 20 257 Arg Asp Gln Asn Lys Tyr Lys Glu Ala Ala His Leu Leu Asn Asp Ala 261 Leu Ala Ile Arg Glu Lys Thr Leu Gly Lys Asp His Pro Ala Val Ala

Input Set : A:\SubSeqList.ST25.txt

Output Set: N:\CRF4\04282006\1683264A.raw

265 Ala Thr Leu Asn Asn Leu Ala Val Leu Tyr Gly Lys Arq Gly Lys Tyr 269 Lys Glu Ala Glu Pro Leu Cys Lys Arg Ala Leu Glu Ile Arg Glu Lys 90 273 Val Leu Gly Lys Phe His Pro Asp Val Ala Lys Gln Leu Ser Asn Leu 105 277 Ala Leu Leu Cys Gln Asn Gln Gly Lys Ala Glu Glu Val Glu Tyr Tyr 120 281 Tyr Arg Arg Ala Leu Glu Ile Tyr Ala Thr Arg Leu Gly Pro Asp Asp 135 130 285 Pro Asn Val Ala Lys Thr Lys Asn Asn Leu Ala Ser Cys Tyr Leu Lys 150 155 289 Gln Gly Lys Tyr Gln Asp Ala Glu Thr Leu Tyr Lys Glu Ile Leu Thr 165 170 293 Arg Ala His Glu Lys Glu Phe Gly Ser Val Asn Gly Asp Asn Lys Pro 180 185 297 Ile Trp Met His Ala Glu Glu Arg Glu Glu Ser Lys Asp Lys Arg Arg 195 200 301 Asp Ser Ala Pro Tyr Gly Glu Tyr Gly Ser Trp Tyr Lys Ala Cys Lys 215 305 Val Asp Ser Pro Thr Val Asn Thr Thr Leu Arg 306 225 230 309 <210> SEQ ID NO: 5 310 <211> LENGTH: 233 311 <212> TYPE: PRT 312 <213> ORGANISM: Artificial 314 <220> FEATURE: 315 <223> OTHER INFORMATION: Protein with protein phosphatase 5 fold 317 <400> SEQUENCE: 5 319 Lys Asp Trp Lys Gly Ala Leu Asp Ala Phe Ser Ala Val Gln Asp Pro . 323 His Ser Arg Ile Cys Phe Asn Ile Gly Cys Met Tyr Thr Ile Leu Lys 20 25 327 Asn Met Thr Glu Ala Glu Lys Ala Phe Thr Arg Ser Ile Asn Arg Asp 331 Lys His Leu Ala Val Ala Tyr Phe Gln Arg Gly Met Leu Tyr Tyr Gln 55 335 Thr Glu Lys Tyr Asp Leu Ala Ile Lys Asp Leu Lys Glu Ala Leu Ile 70 339 Gln Leu Arg Gly Asn Gln Leu Ile Asp Tyr Lys Ile Leu Gly Leu Gln 85 90 343 Phe Lys Leu Phe Ala Cys Glu Val Leu Tyr Asn Ile Ala Phe Met Tyr 100 105 347 Ala Lys Lys Glu Glu Trp Lys Lys Ala Glu Glu Gln Leu Ala Leu Ala 120 115 351 Thr Ser Met Lys Ser Glu Pro Arg His Ser Lys Ile Asp Lys Ala Met 135 355 Glu Cys Val Trp Lys Gln Lys Leu Tyr Glu Pro Val Val Ile Pro Val 356 145 150

Input Set : A:\SubSeqList.ST25.txt

Output Set: N:\CRF4\04282006\1683264A.raw

359 Gly	Lys Leu	Phe A	rg Pro	Asn	Glu	Arg	Gln	Val	Ala	Gln	Leu	Ala	Lys
360		1	.65				170					175	
363 Lys	Asp Tyr	Leu G	ly Lys	Ala	Thr	Val	Val	Ala	Ser	Val	Val	Asp	Gln
364		180				185					190		
367 Asp	Ser Phe	Ser G	ly Phe	Ala	Pro	Leu	Gln	${\tt Pro}$	Gln	Ala	Ala	Glu	Pro
368	195				200					205			
371 Pro	Pro Arg	Pro L	ys Thr	Pro	Glu	Ile	Phe	Arg	Ala	Leu	Glu	Gly	Glu
372	210			215					220				
375 Ala	His Arg	Val L	eu Phe	Gly	Phe	Val							
376 225			230										

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/683,264A
DATE: 04/28/2006
TIME: 12:14:06

Input Set : A:\SubSeqList.ST25.txt

Output Set: N:\CRF4\04282006\1683264A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/683,264A

DATE: 04/28/2006 TIME: 12:14:06

Input Set : A:\SubSeqList.ST25.txt

Output Set: N:\CRF4\04282006\1683264A.raw